QEEG Clinical Report

EEGLens

QEEGhome

NPCindex

The QEEG report is provided by NPCindex Institute, operating under the QEEGhome brand.
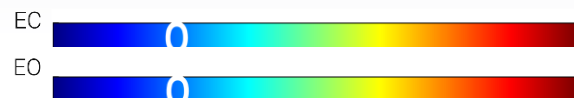
Personal Data:

Name: Test Test
Gender: Female
Age: 1992-06-27 - 33.5
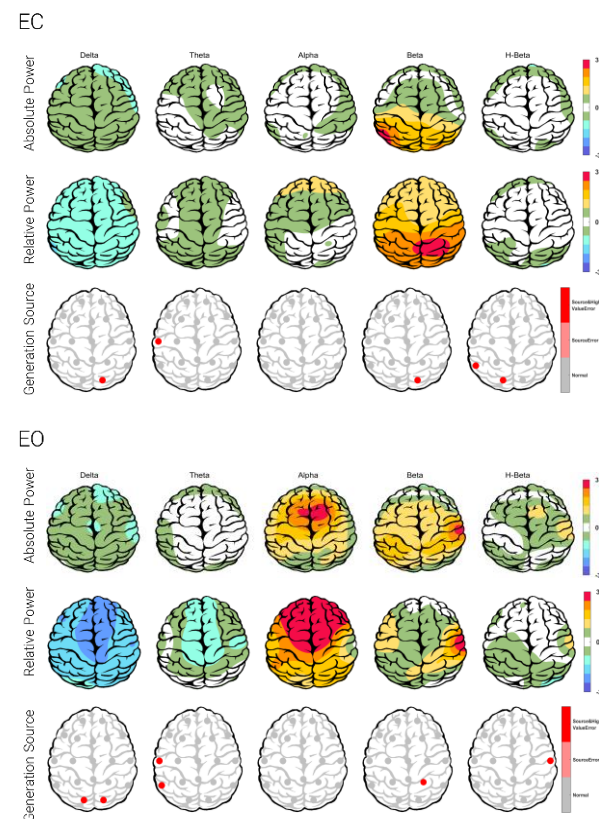Handedness: Right

Clinical Data:

Initial diagnosis: BMD
Medication: -
Date of Recording: 2025-10-27
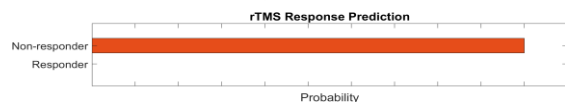Source of Referral: Dr Test

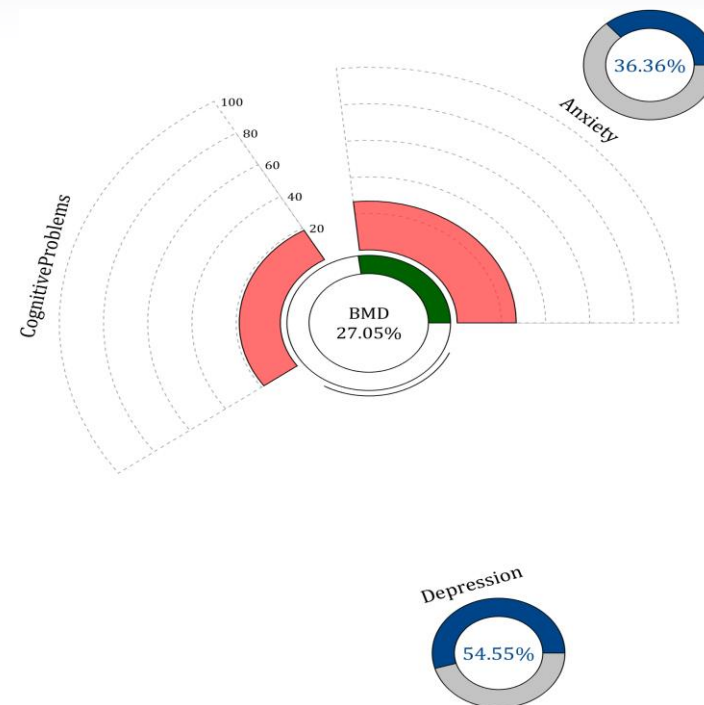This case belongs to Dr Test

EEG Quality

EC

EO

Z-score Information

EC

EO

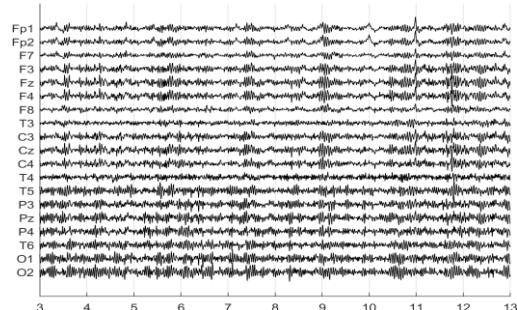## TMS Responsibility

Pathological Assessment

EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.33	High
APF - EC	Frontal	11.25	High
APF - EO	Occipital	10.62	Normal
APF - EC	Occipital	11.62	High
Arousal Level - EO	-	-	Normal
Arousal Level - EC	-	-	High

Dr Test

Denoising Information

▬ Eye Close

Raw EEG

Denoised EEG

Rejected Channel

Flat Channel

Total Recording Time Remaining:
241.66 sec

Number of Eye and Muscle Elements
Eye: 2
Muscle: 1

Low Artifact Percentage

0

High Artifact Percentage

0

Total Artifact Percentage

0

EEG Quality: perfect

▬ Eye Open

Raw EEG

Denoised EEG

Rejected Channel

Flat Channel

Total Recording Time Remaining:
241.93 sec

Number of Eye and Muscle Elements
Eye: 2
Muscle: 0
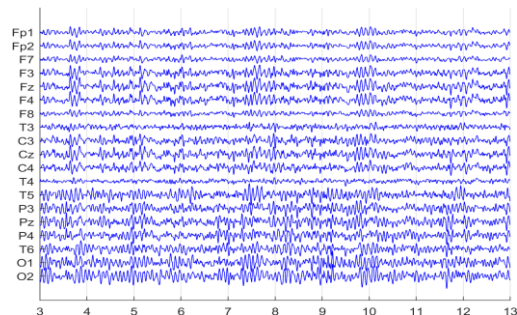
Low Artifact Percentage

0

High Artifact Percentage

0

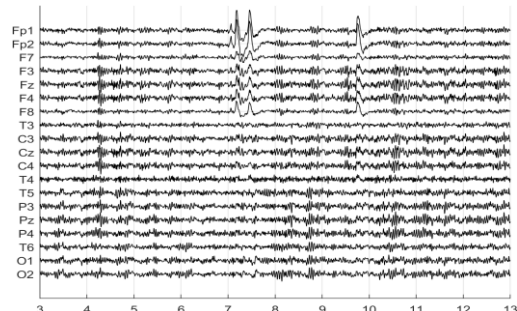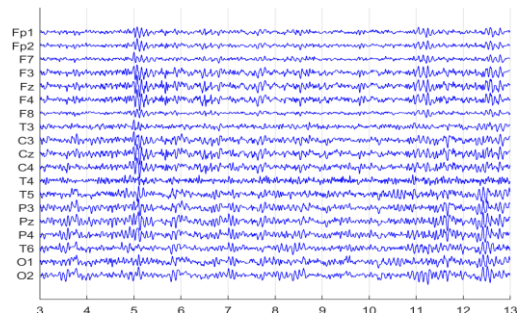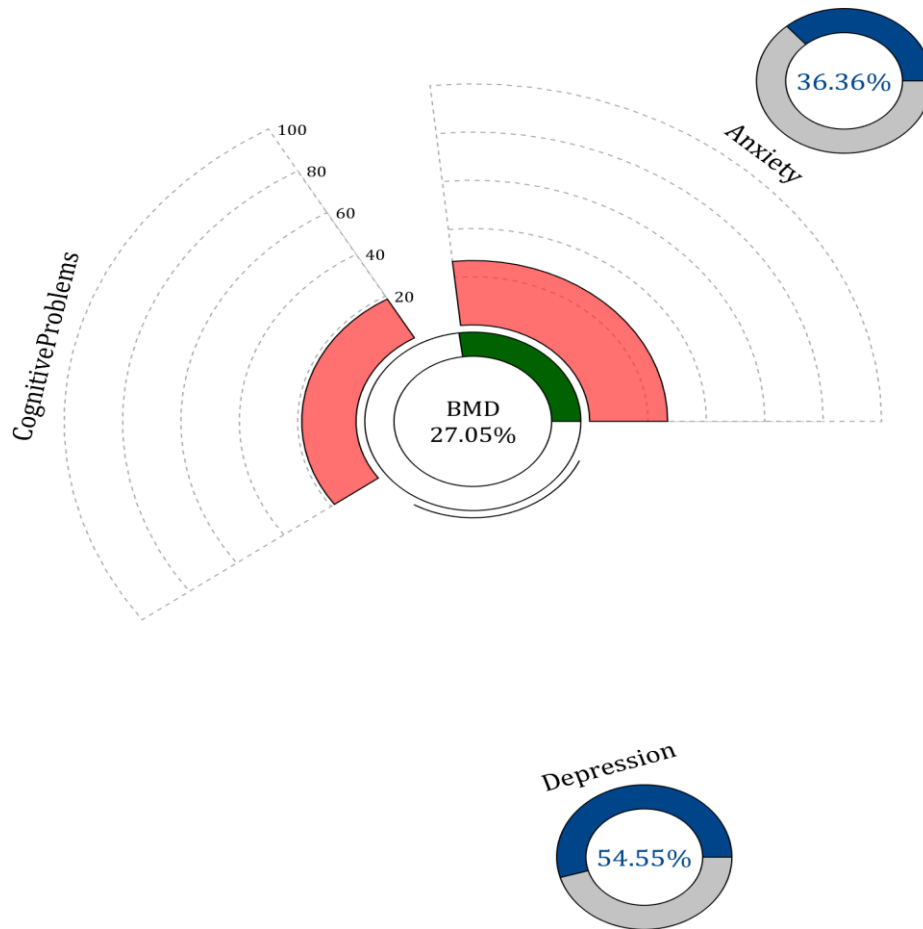Total Artifact Percentage

0

EEG Quality: perfect

Pathological Assessment
Main Diagnosis: Bipolar Mood Disorder

Anxiety
36.36%

CognitiveProblems

BMD
27.05%

Depression
54.55%

Description

According to the guidelines, the initial diagnosis of BMD could have comorbidities such as **alcohol abuse and anxiety**. It also differentially diagnoses with **depression and anxiety disorder**.

In the above graph, the **red area** shows the percentage of each comorbidity from your patient's EEG markers. Observe that each comorbidity marker is not unique and can be shared with other comorbidities.

Side circles in the above graph represent the differential diagnosis between depression and its misdiagnosis conditions based on your patient's EEG markers and trained artificial intelligence. The differential diagnosis probability is represented by **the bold blue bars** in the circles, and the probability of depression is represented by the **gray** bars.
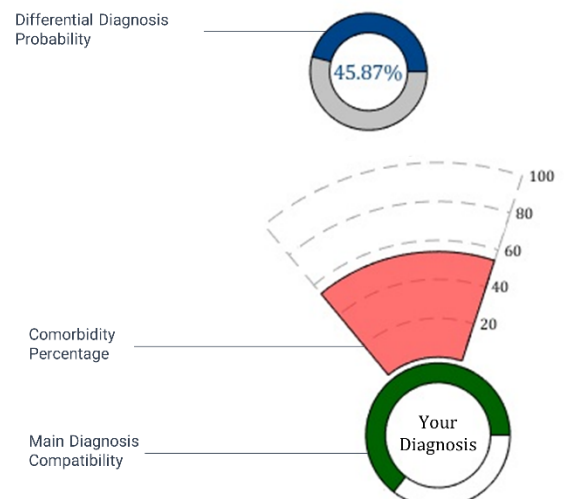
Note: In case your patient has drug abuse, obtain the substance abuse pathologic page of QEEGhome by registering the diagnosis under the initial diagnoses section of the website.
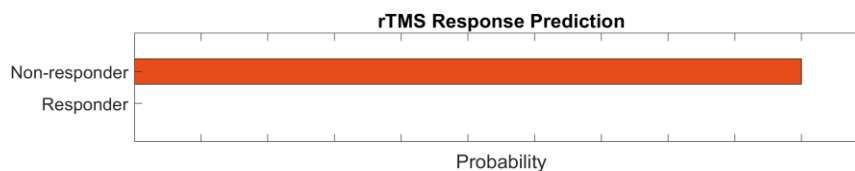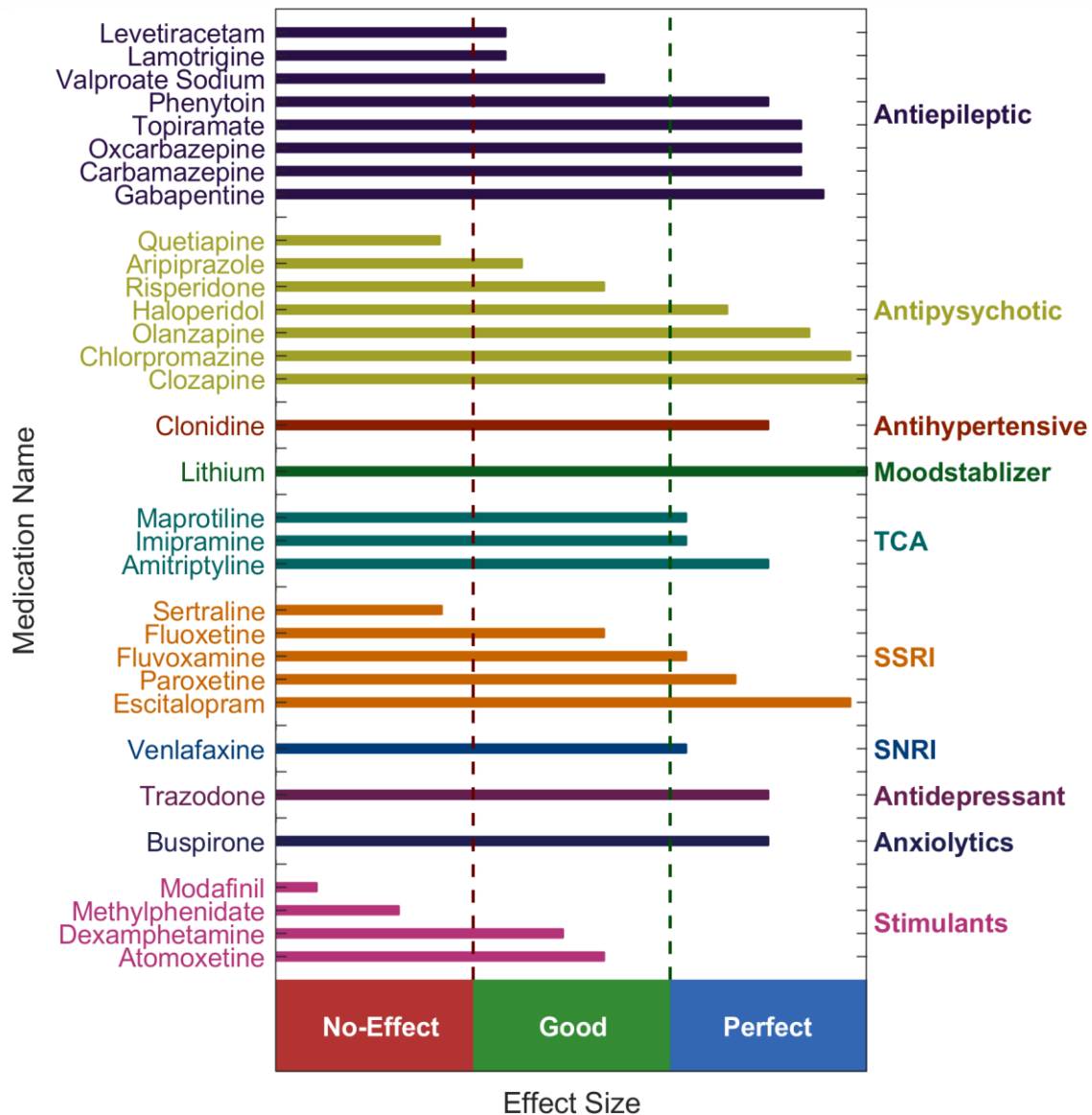
References:
Sadock, B. J., Sadock, V. A., & Ruiz, P. (Eds.). (2025). Kaplan and Sadock's comprehensive textbook of psychiatry (11th ed., Vols. 1–2). Wolters Kluwer
Sadock, B. J., Sadock, V. A., & Ruiz, P. (2022). Kaplan and Sadock's synopsis of psychiatry: Behavioral sciences/clinical psychiatry (12th ed.). Wolters Kluwer

User Manual

This section is only meant to explain the different parts of the pathologic chart and is not related to your patient's data.

Differential Diagnosis
Probability
45.87%

Comorbidity
Percentage

Main Diagnosis
Compatibility

Your
Diagnosis

QEEG Based Predicting Medication Response

Effect Size

rTMS Response Prediction

Probability

Explanation

These two tables present the primary neuromarker findings from NPCindex Research Institute, derived from our research on medication-free Iranian cohorts.

The NPCindex team identified and validated 85 candidate features across raw bands, spectra, power, coherence, and LORETA, and report them here without sub-segregation to minimize complexity.

For context and methodology, see qeeghome.com.

Medication Recommendation

Use the medication charts in three quick steps:

1- Filter the medication groups by your working diagnosis.

2- Within each group, re-filter by your clinical assessment and the patient's specifics (comorbidities, contraindications, preferences).

3- From the remaining options, use the reported effect sizes to choose.

Based on papers, following this workflow has raised our response rates by ~20−30%.

Vigilance
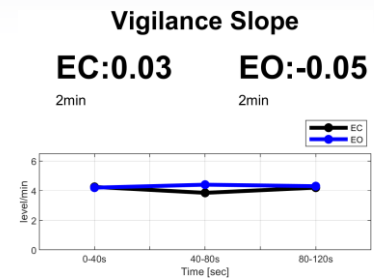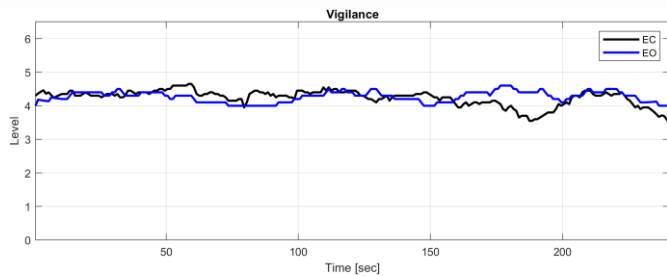
Vigilance Slope

EC:0.03   **EO:-0.05**

2min   2min

EEG Neuromarker Values

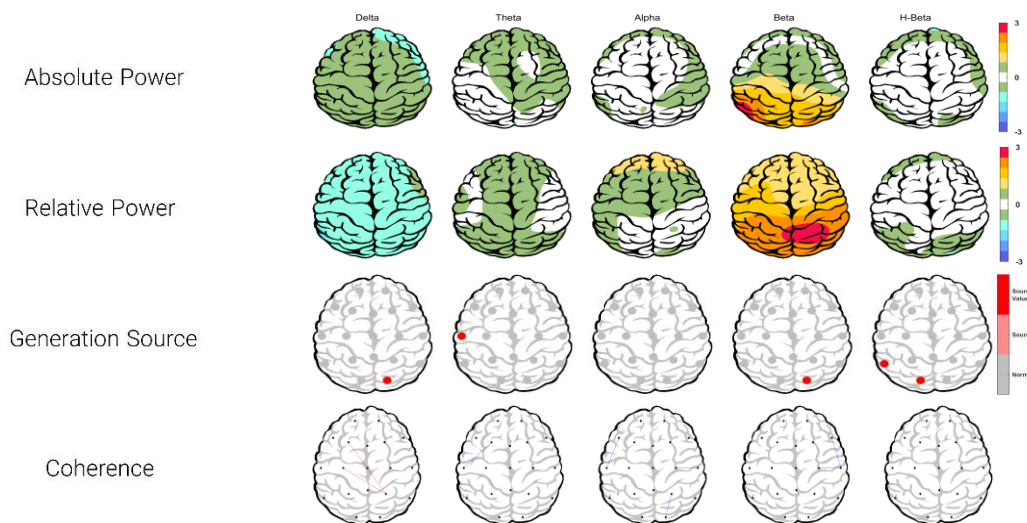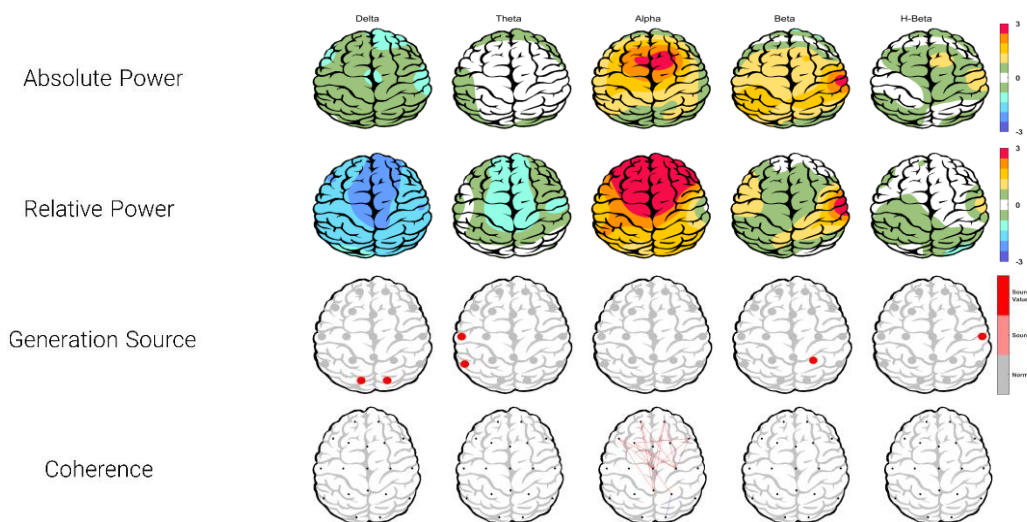| Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.33	High
APF - EC	Frontal	11.25	High
APF - EO	Occipital	10.62	Normal
APF - EC	Occipital	11.62	High
Alpha Asymmetry	Frontal	-0.05	Anhedonia
Alpha Asymmetry	Occipital	-0.26	Anhedonia
Beta Asymmetry	Frontal	-0.04	Anxiety
Alpha Blocking Error	-	-	Not
Vigilance Level - EO	-	04.00	Normal
Vigilance Level - EC	-	04.00	Normal
Vigilance Mean - EO	-	04.27	Low
Vigilance Mean - EC	-	04.23	Normal
Vigilance Regulation - EO	-	-0.05	Normal
Vigilance Regulation - EC	-	00.03	Normal
Vigilance 0 Stage (%) - EO	-	13.28	Normal
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) – EO	-	00.00	-
Vigilance A1 Stage (%) – EC	-	49.38	-

RDoC Domain
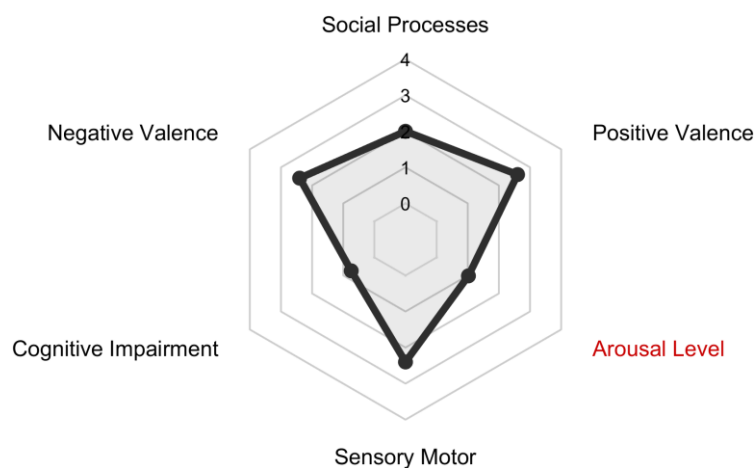
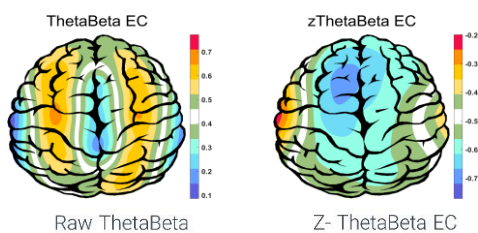# EEG Spectra
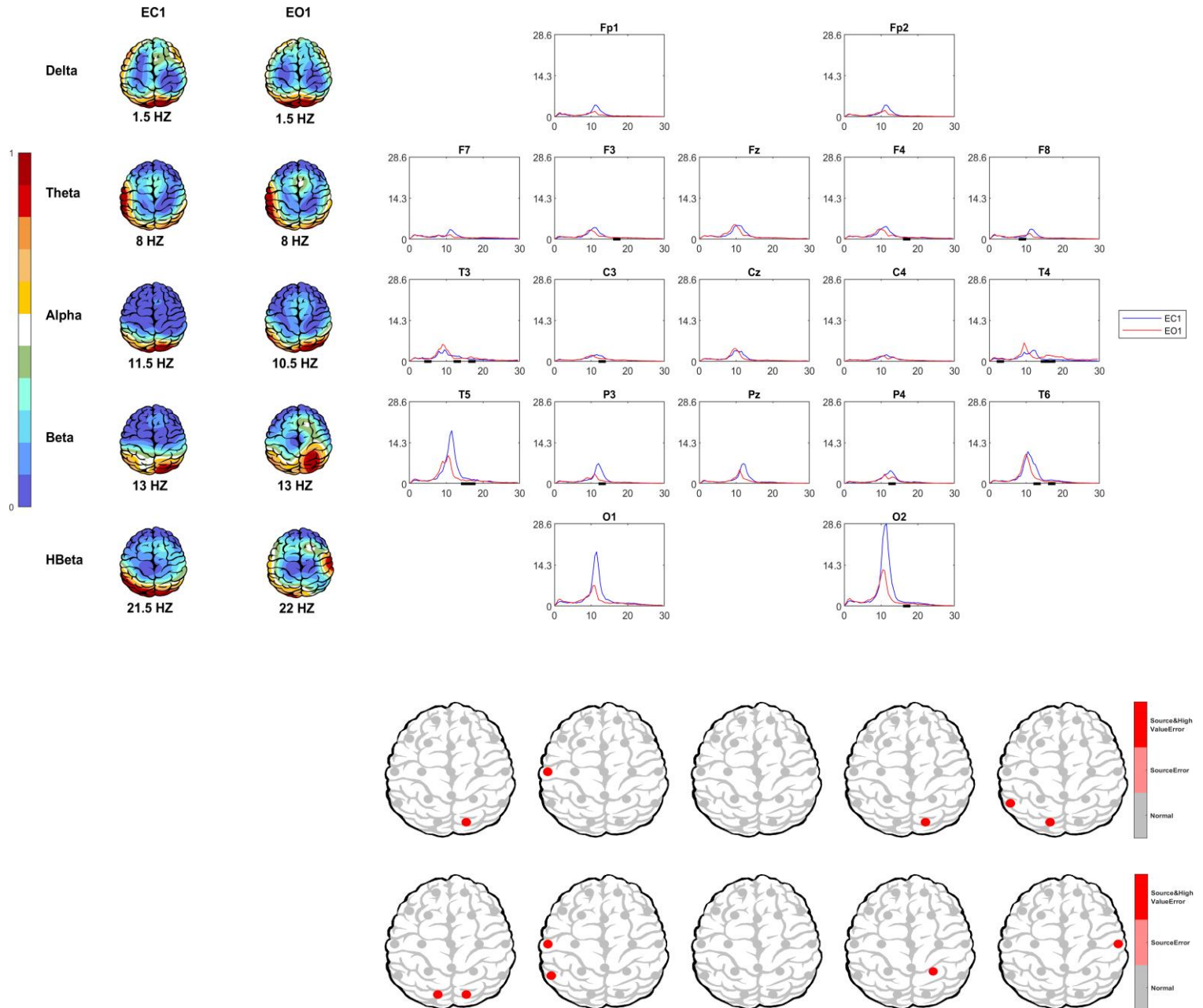
Z Score Summary Information

Eye Close

Eye Open

Theta/Beta Ratio

Eye Close

Raw ThetaBeta   Z- ThetaBeta EC

Eye Open

Raw ThetaBeta   Z- ThetaBeta EC